

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-000645

(43)Date of publication of application : 05.01.1990

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(51)Int.Cl.

C08J 9/00  
B29C 61/06  
// A61F 2/06  
A61L 15/00  
A61L 27/00  
B01D 69/02  
B01D 71/36  
B29C 55/00  
B29K 27:18  
B29L 23:22  
C08L 27:18

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(21)Application number : 63-260731

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(22)Date of filing : 18.10.1988

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(30)Priority

Priority number : 87 110145 Priority date : 19.10.1987 Priority country : US  
88 248887 23.09.1988 US

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(54) QUICK RECOVERING POLYTETRAFLUOROETHYLENE AND MANUFACTURE OF THIS MATERIAL

(57)Abstract:

PURPOSE: To improve recovering property of dimensional directions by extruding a mixture of PTFE and a liquid lubricant followed by vertically drawing, expanding it after removing the lubricant, and compressing and fixing it in fibril direction.

CONSTITUTION: A preliminarily molded billet formed of a mixture of coagulated body of PTFE and a liquid lubricant is extruded in tube, rod or film form, and vertically drawn 50% or lower while keeping a temperature between 35°C and the crystal melting point, and the liquid lubricant is removed to provide a porous molded product. This molded product is then expanded, compressed in the direction for reducing its size, and fixed by heating to provide a porous molded product having a minute structure of node connected by fibril and a quick recovering property of 5.5% or more.

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**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]